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DATE MAILED: 01/25/2005

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/641,372	08/13/2003	Aryan Saed	11178-9	9636
21323 75	90 01/25/2005		EXAMINER	
TESTA, HURWITZ & THIBEAULT, LLP			NGUYEN, PATRICIA T	
HIGH STREET TOWER 125 HIGH STREET BOSTON, MA 02110			ART UNIT	PAPER NUMBER
			2817	

Please find below and/or attached an Office communication concerning this application or proceeding.

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A.

	Application No.	Applicant(s)					
Office Action Comments	10/641,372	SAED, ARYAN					
Office Action Summary	Examiner	Art Unit					
	Patricia T Nguyen	2817					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed; may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on	_·						
	action is non-final.						
3) Since this application is in condition for allowan	ce except for formal matters, pro	secution as to the merits is					
closed in accordance with the practice under E.	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-60</u> is/are pending in the application.							
4a) Of the above claim(s) 46-50 is/are withdraw	4a) Of the above claim(s) <u>46-50</u> is/are withdrawn from consideration.						
5) Claim(s) <u>1-26,32,33 and 51-60</u> is/are allowed.							
6)⊠ Claim(s) <u>27-31</u> is/are rejected.							
7)⊠ Claim(s) <u>34-45</u> is/are objected to.	olection requirement	•					
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examine	f.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
.,	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correcting 11) The oath or declaration is objected to by the Ex	•						
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s)							
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>11/3/03</u>. 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:						

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DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-45, 51-60 drawn to a system for processing an input signal, classified in class 330, subclass 149.
- II. Claims 46-50 drawn to a preprogrammed control device for use in controlling an adaptive predistortion subsystem, classified in class 327, subclass 2.

Inventions I and II are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention II has separate utility such as a preprogrammed control device for use in an adaptive predistortion system. See MPEP 806.05(d).

Because these inventions are distinct for the reasons given above and the search required for Group II is not required for Group I, restriction for examination purposes as indicated is proper.

During a telephone conversation with Jason Fiorillo on December 9, 2004 a provisional election was made without traverse to prosecute the invention of Group I, claims 1-45 and 51-60.

Affirmation of this election must be made by applicant in replying to this Office action. Claims 46-50 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 31 recites the limitation "said replica" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Double Patenting.

Claims 27-31 of this application conflict with claims 60-64 of application No. 10/613, 372. 37 CFR 1.78(b) provides that when two or more applications filed by the same applicant contain conflicting claims, elimination of such claims from all but one application may be required in the absence of good and sufficient reason for their retention during pendency in more than one application. Applicant is required to either cancel the conflicting claims from all but one application or maintain a clear line of demarcation between the applications. See MPEP § 822.

Claims 27-31 are provisionally rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 60-64 of copending Applications No. 10/613,372. This is a <u>provisional</u> double patenting rejection since the conflicting claims have not in fact been patented.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35

U.S.C. 102 that form the basis for the rejections under this section made in this

Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 27-28 and 31 are rejected under 35 U.S.C. 102(b) as being anticipated by Cavers.

Refer to fig. 1 of Cavers, a main amplifier A1 has the input signal to it predistorted in an adaptive fashion. Controller CTI may be read as the determining means claimed as it will determine the predistortion provided by the adjuster CGAI which may be read as the adjustment means claimed. The feedback network that results in line 100 being fed to the controller may be read as the update means claimed since the outputs on lines 110,115 are incremented to achieve a lower value on line 100 in one embodiment (see col. 2, lines 9-16 of Cavers).

Regarding claim 28, CGAI receives parameters from CTI to cause predistortion of the input signal.

Regarding claim 31, since the feedback network combines the delayed input and output of the main amplifier A1 the predistortion will be dependent thereon.

Allowable Subject Matter

Claims 1-26, 32, 33, 51-60 are allowed.

Claims 29, 30, 34-45 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. Patents # 5,880,633, # 6,072,364, # 6,388,518 B1, # 6,211,733 B1, and # 6,043,707 contain some limitations of the claimed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patricia T Nguyen whose telephone number is (703) 308-1927. The examiner can normally be reached on 6:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on 703-309-4940. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pairdirect.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (tollfree).

PTN

January 21, 2005

PATRICIA NGUYEN

Patricia Nguyan

PRIMARY EXAMINER